

**PROPOSED CLAIMS AMENDMENTS****(U.S. Serial No. 09/200,657; attny d cket TSRI 184.2C2)**

Proposal to delete claims 49-52 and 61-66 and 68-78 and amend claims 21 and 43 as follows.

**A. Claims with proposed changes included:**

21. (Twice Amended) A plant, comprising:

a) plant cells containing nucleotide sequences encoding a biologically functional immunoglobulin product comprising an immunoglobulin heavy chain polypeptide and an immunoglobulin light chain polypeptide wherein said nucleotide sequences also encode a leader sequence for each polypeptide and wherein said light chain polypeptide or said heavy chain polypeptide or both are not full length; and

b) biologically functional immunoglobulin product encoded by said nucleotide sequences, wherein each leader sequence forms a secretion signal that is cleaved from each of said immunoglobulin heavy chain and light chain polypeptide following proteolytic processing.

43. (Amended) A plant, comprising:

a) plant cells containing nucleotide sequences each encoding an immunoglobulin single polypeptide product containing at least an immunoglobulin heavy chain polypeptide or portion thereof, an immunoglobulin light chain or portion thereof, or both an immunoglobulin heavy chain or portion thereof and an immunoglobulin light chain or portion thereof, wherein said nucleotide sequences encode a leader sequence forming a secretion signal wherein said cells containing nucleotide sequence encoding an immunoglobulin heavy chain polypeptide or portion thereof do not contain nucleotide sequence encoding a light chain, while

said cells containing nucleotide sequence encoding an immunoglobulin light chain polypeptide or portion thereof do not contain nucleotide sequence encoding a heavy chain; and

b) immunoglobulin single polypeptide product encoded by said nucleotide sequences, wherein said leader sequence is cleaved from said polypeptide product following proteolytic processing.

**B. Claims with proposed changes shown:**

21. (Twice Amended) A plant, comprising:

a) plant cells containing nucleotide sequences encoding a biologically functional immunoglobulin product comprising an immunoglobulin heavy chain polypeptide and an immunoglobulin light chain polypeptide wherein said nucleotide sequences also encode a leader sequence for each polypeptide and wherein said light chain polypeptide or said heavy chain polypeptide or both are not full length [~~not normally produced by the plant~~]; and

b) biologically functional immunoglobulin product encoded by said nucleotide sequences, wherein each [~~nucleotide sequence encoding an immunoglobulin polypeptide encodes a~~] leader sequence [~~forming~~] forms a secretion signal that is cleaved from each of said immunoglobulin heavy chain and light chain polypeptide following proteolytic processing.

43 (Amended) A plant, comprising:

a) plant cells containing nucleotide sequences each encoding an immunoglobulin single polypeptide product containing at least [a portion of] an immunoglobulin heavy chain polypeptide or portion thereof, an immunoglobulin light chain or portion thereof, or both an immunoglobulin heavy chain or portion thereof and an immunoglobulin light chain or portion thereof, wherein said nucleotide sequences encode [polypeptide and polypeptide further comprises] a leader sequence forming a secretion signal wherein said cells containing nucleotide sequence encoding an immunoglobulin heavy chain polypeptide or portion thereof do not contain nucleotide sequence encoding a light chain, while said cells containing nucleotide sequence

encoding an immunoglobulin light chain polypeptide or portion thereof do not contain nucleotide sequence encoding a heavy chain; and

b) [biologically functional] immunoglobulin single polypeptide product encoded by said nucleotide sequences, wherein said leader sequence is cleaved from said [heavy chain] polypeptide product following proteolytic processing.